

Monash University Academy of Performing Arts

ROBERT BLACKWOOD HALL

Technical Specifications



Updated MAY 2013

STAGE

Stage Description:

The Robert Blackwood Hall is a 1598 seat Concert Hall, consisting 1256 seats in the raked auditorium and seating for a further 342 patrons in the balcony. The stage is an open stage with 4 fixed risers built in. Primarily built for large orchestra performances the acoustics are fantastic for any live entertainment. There is no proscenium or flown scenery capabilities.

The stage floor is Queensland Spotted Gum T & G hardwood flooring. Please note there is no nailing or screwing to the floor permitted.

Stage Dimensions:

Setting Line: **200m** (*from D/S edge of cable trap.*)

Centre Line: **9.38m**

Stage drop to Auditorium **1.18m**

Distance From (*SL = Setting Line, CL = Centre Line*)

SL to 1st Rise in floor **5.5m** (*0.5m height of riser*)

SL to Organ Barrier **11.4m**

SL to Back Wall **13.3m**

CL to PS/OP wall ds **9.38m**

CL to PS/OP wall up/s **8.4m**

Auditorium:

Seating capacity: **1598**

Downstairs: **1256**

Upstairs: **342**

**12 Removable Seats to accommodate wheelchairs in Stalls.*

Orchestra Pit: **NO.**

Flying Facilities:

Fly System:
Motorised (Chain & Pile Winches).

Fly System Details:

Operating Position	Plug In Controller PS.
LX Lines	5
Scenery Lines	No.
Panorama Lines	No.
Batten Type	Box and Flat Truss.
LX bars can be swung	No.

** SEE THEATRE LX PLANS FOR LINE LOCATIONS.*

Drapery:
No. (*Drapery can be accommodated at a additional charge)

Access Equipment:

Ladders: 2 x Extension Ladder **4m**
1 x A-Frame Ladder **3.5m** Aluminium (not for electrical use)

Staging Units:

Item	Length	Width	Height	Total
Large Riser	2100	600	185	4
Medium Riser	1500	300	185	14
Small Riser	600	300	185	8
Step Infills	1500	1200	1200	2

Item	Total
Lectern	2
Conductors Podium	1
Stage Chairs	1
Music Stands	60

Loading Dock:

Access: Via Carpark behind Robert Blackwood Hall.
Truck Dock level is at Stage level which is **1800 (H) x 3300mm (W)**.
Dock Doors are **2200 (H) X 1800 (W)**
Diagonal space between doors **2600 (W)**.

LIGHTING:

Control Position: Dedicated Control Room at Balcony level.

Lighting desk: **STRAND 300** (1 monitor)

Control channels: **200**

Signal output: **DMX**

Signal distribution: **2 x Lighting positions - 1 Control Room.**

Remote riggers available onstage: **No.**

LX Positions:

Stage Bars: **Lx 1 – 49mm Pipe** (12 Dimmers x 2500 watts).

Lx 2 - Box Truss (24 Dimmers x 2500watt + Projection Screen).

*LX Bars are FIXED and can not be swung.

FOH Bar #1

Setting Line to lighting bar **0.5mm**

Usable bar width **14.2m**

Notes: Pipe (12 dimmers with a total of 2500watt)

FOH Bar #2

Setting Line to lighting bar **3.9m** (*9.3m high from auditorium level*)

Usable bar width **10.9m**

Notes: Box Truss (24 dimmers x 2500watts)

FOH Bar #3

Setting Line to lighting bar **10.9m** (*11.4m high from auditorium level*)

Usable bar width **12.2m**

Notes: Box Truss (12 x dimmers x 2500 watts)

FOH Boom (PS & OP)

Setting Line to FOH Boom 1# **9.5m** (5.1m stage level to lowest point of Boom)

Maximum lanterns on boom **4 outlets.**

Dimmer Racks:

Total Dimmers: 150

Dimmer Locations:

1-24	FOH 2	2.4kW Phillips IGBT
25-36	FOH 1	2.4kW Phillips IGBT
37-48	LX 1	2.4kW Phillips IGBT
49-60	LX 2	2.4kW Bytesize TRV
85-96	FOH 3	2.4kW Bytesize TRV
97-102	FOH 3	2.4kW Bytesize
103-108	ROOF	2.4kW Bytesize
109-120	Dimmer Rm 1	2.4 kW Bytesize
109-120	Dimmer Rm 1	2.4kW Bytesize
121-132	Dimmer Rm 1	2.4kW Bytesize
133-144	FOH 2	2.4kW Bytesize
145-150	ROOF	2.4kW Bytesize

House Lights:

Independent control	Yes.
Control positions	Control room.
Fade time adjustable	Yes (manual).

Stage Luminaire:

Profiles:

Make	Model	Angle	Detail	Watt	Total
Sil 12/28	Zoom Profile	12/28		1kW	3
Cantata	Zoom Profile	12/26		1.2kW	18
Cantata	Fixed Profile	18/32		1.2kW	18
Patt T-64	Fixed Profile			1kW	4

Fresnels:

Make	Model	Detail / Accessories	Watt	Total
Patt 243	Fresnel		2kW	6
Patt 223/743	Fresnel		1kW	4
Patt 123	Fresnel		650 kW	1
Selecon	CF 1200		2kW	8

Par Cans:

Make	Model	Angle	Detail / Accessories	Watt	Total
PAR 64	110v Flood		MFL globes		48

Followspots:

Make	Model	Angle	Detail / Accessories	Watt	Total
Patt 293	Followspot			2kW	1

Additional Lighting:

Item	Make	Model	Detail / Accessories	Watt	Total
Mirror Ball		20inch	20" diameter ball with motor		1
LED UV					3
Strobe					1

*NB 32 X PAR 64 luminaries are used as down light orchestra floods.

Power:

3 Phase Outlets: 2 x 32 amp OP Stage.
1 x 60 amp OP External Wall (can be accessed via stage).

Cabling:

The theatre has a good stock of extension leads and IEC leads to accommodate the venue's standard lighting rig and minimal external equipment hire.

Lighting Notes:

The Robert blackwood Hall has a standard lighting rig consisting of 4 colours from FOH Blue (Lee 079), Amber (Lee 134), Red (Lee 164) and open White. As well as 2 colours of Backlight (Lee 195) and Red (Lee 026).

*Any changes to Standard Rig will incurred extra charge.

AUDIO

Control Position: Dedicated Control room at Balcony level.
OR
 Auditorium Seats W20-25 + X20-25.
 (No in house patching at this position must supply multicore.)

Control & Amplification:**Primary Mixer:****Soundcraft K3**

- 24 x Input + 5 x Stereo channels.
- 8 x Sub Groups
- 8 x Aux Sends
- Left, Right & Mono Main Outs NB: No built in effects

Amplifiers: All powered by CREST & Jands amplifiers

Equalisers: 1 x EFX Yamaha SPX 990
 1 x XTA Electronics Processors
 2 x Yamaha EQ21031B
 1 x Klark Technic DN22 Graphic Equaliser

DI: 1 x RADIAL multimedia Direction Box.
 2 x BSS Direction Box.

Speakers:**FOH Speakers:**

6 x EAW AS 660i (3 clusters hung at centre, left and right).

Balcony Delay Speakers:

3 x EAW MK2194 Full range.

Playback:

Item	Make	Model	Detail	Total
Cassette Deck	Denon	DN-79OR		2
CD Player	Denon	DN-79OR		1
Mini Disk	SONY	MDS-E12		1
CD Burner	HBB	CDR-830		2

Microphones:

Make	Model	Detail	Total
SHURE	58 DYNAMIC		6
SHURE	57		2
NEUMAN	AKM 84		3
MANN	M11		3
SENNHEISER	E815S	switchable	1
NITRONS	NPM260		5
COUNTRYMAN	GOOSENECK		4
AKG	HM1000	Choir Mics	4
AKG	D112	Kick Drum Mic	1

Accessories:

Item	Detail / Accessories	Total
Microphone Stand Tall	Boom arms	10
Microphone Stand short		4
Microphone Stand short	Chrome Tri-base	8

Audio Cable:

Various lengths of XLR Jack, mini jack, RCA leads, IEC Leads and adaptors.

Audio Notes:

Seat W20-W25 and X20-X25 may be removed to accommodate a mixer in the auditorium. There is no patching available in these locations, therefor a multicore will be required and an additional mixing desk to be hired (*at an extra charge).

The mixing Desk is set up in the Control Room in the Balcony area. This mixer is unable to be moved to the auditorium.

Additional audio equipment required (eg. Radio microphones, effects, reverb, graphics etc) may be available by prior arrangement with theatre management (*at an extra charge).

There are Neumann Microphones suspended in the roof for recording purposes ONLY and can not be relocated.

AUDIO VISUAL:Control Position:**Control Room.**

This room is located PS stage dedicated for all AV needs. Specifically built and designed to accommodate all projection, recording and signal needs for broadcast.

Lecture Position (PS & OP).**SM Desk.**Projectors:

Type	Model	Detail / Accessories	Total
Panasonic DLP	PT D6000ES	***Extra charge ***	1

*Can be hung from Control Room 1 or FOH LX 3.

Projection Screens:

Projection Screen 1: 8m x 6m (takes 2min to be lowered independently hung)

Projection Screen 2: 3.4m x 4m (takes 30sec to be lowered on LX 2)

AV Playback Equipment:

Equipment	Make	Detail	Total
DVD PLAYER	PIONEER	DVD V8000	1
PRESENTATION SWITCHER	KRAMER	VP-728	1
SPLITTER	KRAMER		1

CCTV:

In House Stage Monitor Camera is split to:

Prompt Corner

OP Corner

Foyer

Dressing Rooms

Audio control

Lighting Control Room

Cabling:

The theatre has a good stock of Coaxial, BNC/RCA cable to accommodate the venue's own equipment.

BACKSTAGE

Communications:

Stage Managers Desk

Stage Managers desk is located in prompt corner.

Monitor screen is mounted on the side of the Prompt Corner wall with Phone.

Talkback:

Master Unit

ClearCom System.

Total headsets

5

Radio Units In-house

5

Talkback patching located at:

OP. OFF STAGE.

STAGE MANAGERS DESK.

LX CONTROL.

AUDIO CONTROL.

CONTROL ROOM 2.

ORGAN POSITION.

Paging / Show relay:

Paging to the dressing rooms is available from the stage managers desk. Show relay is distributed to all dressing rooms and green room. Each room has an individual volume control.

Q Light System:

NO.

Dressing Rooms:

Dressing Room:	Capacity:	Toilets:	Shower:	Details:
Mens	15	2		8 CHAIRS
Douglas Menzies	2	1	1	1 LOUNGE CHAIR, CHAISE & HOLLYWOOD VANITY.
Ruth Alexander	2	1	1	2 LOUNGE CHAIRS, STOOL, HOLLYWOOD VANITY.
Womens	15	2		4 CHAIRS & 1 CHAISE.
Common Room	30 +			15 CHAIRS

Laundry / Wardrobe:

Washing Machines

Yes.

Dryers

Yes.

Drying rooms

No.

Iron / ironing board

Yes.

Clothes racks

Yes.

Production Facilities:

Production Desk

Production desk set-up in the centre of the stalls. Table accommodates 2 people with lighting, talkback and FOH Microphone.

Production Office

No.

Phone

No.

Fax

No.

Internet access

No.

(Access to technical office phone line on arrangement with Technical Management.)

Greenroom:

Tea / Coffee facilities **No.** (Can be arranged through Theatre Management. *Additional Charge)

Fridge / freezer **Yes.**

Microwave **Yes.**

Running water **Yes.**

Stage Door:

Access

Stage Door is located along the side of Robert Blackwood Hall between front doors and Loading Dock.

ADDITIONAL FACILITIES & INFORMATION:

Orchestral:

1 x Steinway 9' Concert Grand piano D-Series. (Tuning included in Hire charge)

1 x Steinway 9' Grand piano.

1 x Beckstien 5' Baby Grand piano. (FOH)

* Tuning to be arranged prior to use. Additional charge.

1 x Sir Lois Matheson PIPE ORGAN.

*3097 pipes, 4 keyboards (manuals), 30 pedals, 45 stops.

Rehearsal Space:

There is 1 small space OP side of stage in the Dock area, otherwise down stairs in the large common area is the best place for rehearsal space.

Down stairs area can accommodate up to 40 people, this does not include dressing rooms which come off the common room area.

VENUE:

Venue Address:

Monash University, Clayton Campus, Wellington Road, Clayton.
Building 2.
Drive in via main entrance from Wellington Road and drive straight through
first round about. Robert Blackwood Hall is located on the left.

Staff Contacts:

Technical Services Team Leader: Russell Proud

Phone number: (03) 99051689

Fax number: (03) 9905 1680

Email address: Russell.proud @adm.monash.edu

Website: www.monash.edu/mapa

Venue Plans:

Venue Plan Available: Yes.